

# Solution Manual for Signals and Systems Analysis Using Transform Methods and MATLAB 3rd Edition Roberts 0078028124 9780078028120

## Chapter 2 - Mathematical Description of Continuous-Time Signals

### Solutions

#### Exercises With Answers in Text

##### Signal Functions

1. If  $g(t) = 7e^{-2t+3}$  write out and simplify

(a)  $g(3) = 7e^{-3} = 8.6387 \times 10^{-2}$

(b)  $g(2-t) = 7e^{-2(2-t)+3} = 7e^{-1+2t}$

(c)  $g(t/10+4) = 7e^{-2(t/10+4)+3}$

(d)  $g(jt) = 7e^{-2jt+3}$

(e)  $\frac{g(jt) + g(-jt)}{2} = 7e^{-3} \frac{e^{-j2t} + e^{j2t}}{2} = 7e^{-3} \cos(2t) = 0.3485 \cos(2t)$

(f)  $\frac{g\left(\frac{t-3}{2}\right) + g\left(\frac{-t-3}{2}\right)}{2} = 7 \frac{e^{-t+3} + e^{-t+3}}{2} = 7 \cos(t)$

2. If  $g(x) = x^2 - 4x + 4$  write out and simplify

(a)  $g(z) = z^2 - 4z + 4$

(b)  $g(u+v) = (u+v)^2 - 4(u+v) + 4 = u^2 + v^2 + 2uv - 4u - 4v + 4$

Solutions 2-1

# Signals And Systems Using Matlab Solution Manual

**EW Minium**



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